

**GOVERNMENT OF INDIA
POWER
LOK SABHA**

UNSTARRED QUESTION NO:1294
ANSWERED ON:27.11.2000
COMMERCIAL USE OF FLY ASH
SHIVAJI VITHALRAO KAMBLE

Will the Minister of POWER be pleased to state:

- (a) the estimated quantity of fly ash resulted per annum due to thermal power generation units in the country;
- (b) existing arrangements made by each thermal plants for the disposal of fly ash in eco-friendly manner to check environment pollution conservent degradation in the country, State-wise;
- (c) the details of suggestion made by the experts committee for the commercial use of fly ash for building material;
- (d) whether the Government have formulated any action plan to deal with the problem more effectively during the Ninth Plan period, particularly in Maharashtra;
- (e) if so, the details thereof; and
- (f) the action taken by the State Governments in this regard, State-wise?

Answer

THE MINISTER OF STATE IN THE MINISTRY OF POWER (SHRIMATI JAYAWANTI MEHTA)

(a): Total quantity of fly ash generated from thermal power plants is 80 million tones per annum based on an average ash content of 40% of coal.

(b): The fly ash generated in the power stations is collected with the help of high efficiency electrostatic precipitators and is disposed off in the low lying areas in the form of slurry. All the power stations in the country are making arrangements for dry fly ash collection and in turn using the ash for making of bricks, cement and other building materials. A statement showing the state-wise details of dry fly ash collection arrangements, made for utilization/disposal by each thermal power station is at Annexure.

(c): The Fly Ash Mission established under the Department of Science & Technology in the year 1994 has inter alia suggested that fly ash should be used for construction of roads & embankments, manufacture of bricks & blocks, production of cement, fertilizers and utilization of fly ash for reclamation of ash ponds for human settlement and under ground mine fill.

(d) to (f): The Government of India vide Gazette Notification No. SO 763 (E) dated 14.09.1999 has inter alia directed that –

(i) every coal or lignite based thermal power plant commissioned subject to environmental clearance conditions stipulating the submission of an action plan for full utilization of fly ash shall, within a period of nine years from the publication of the Notification, phase out the dumping and disposal of fly ash on land in accordance with the Plan; and

(ii) Every coal or lignite based thermal power plant not covered by

(i) above shall, within a period of fifteen years from the date of publication of this Notification, phase out the utilization of fly ash in accordance with an action plan to be drawn up by the power plants.

Various utilities have set up fly ash utilization divisions in their respective stations and are taking steps to promote utilization of fly ash produced by their power stations.

The Maharashtra State Electricity Board is encouraging the entrepreneurs for utilization of fly ash. It has intimated that agreements have been signed for utilization of fly ash being produced at Nasik and Chandrapur TPSs.

The Central Electricity Authority is monitoring fly ash production, its utilization and also the status of implementation of the action plans in respect of the thermal power stations in the country.

ANNEXURE

ANNEXURE REFERRED TO IN REPLY TO PART (b) OF UNSTARRED QUESTION NO. 1294 TO BE ANSWERED IN THE LOK SABHA ON 27.11.2000 REGARDING COMMERCIAL USE OF FLY ASH.

Statement showing the State-wise details of dry fly ash collection arrangements made by Thermal Power Stations for its

utilisation/disposal.

Sl.No. Name of the Power Station Mode of Pulverised Fly Ash Dry PFA
(State-wise) (PFA) Utilisation Collection facilities

1. Assam

Bongaigaon Asbestos, Cement Industries Available

2. Andhra Pradesh

Kothagudem Nil N.A.(under construction)
Nellore Bricks & Cement Available
Ramagundam Nil Available
Rayalseema Bricks & Cement Available
Vijayawada Bricks & cement Available

3. Bihar

Barauni Nil N.A.
Muzaffarpur Nil N.A.
Patratu Bricks & Cement Nil
Tenughat Available N.A.

4. Gujarat

Gandhinagar Nil Available
Kutch Nil Available
Sikka Cement Available
Ukai Cement Available
Wanakbori Sabarmati Bricks Building materials,
land filling, high way slabs.
N.A. Available

5. Haryana

Faridabad N.A.
Panipat N.A.

6. Karnataka

Raichur Bricks, Cement & Ceramics Available

7. Madhya Pradesh

Amarkantak Nil N.A.
Korba II & III (East) Cement & Ash dyke N.A.
Korba West Bricks & Ash dyke N.A.
Sanjay Gandhi Bricks Available
Satpura Nil N.A.

8. Maharashtra

Bhusawal Bricks, Land fill & agriculture N.A.
Chandrapur Bricks & Asbestos products N.A.
Khaperkheda Bricks & structural fill Available
Koradi Bricks & structural fill N.A.
Nasik Cement, agricultur & ash dyke N.A.
Paras Agriculture & Bricks Available
Parli Agriculture & asbestos products N.A.
Dahanu Bricks Data not available
Trombay N.A.

9. Orissa

Ib Valley Ash dyke & land filling Available
10. Punjab
Bhatinda Cement Available
Ropar Cement Available
11. Rajasthan
Kota Cement, Bricks & Ash dyke N.A.
Suratgarh Nil N.A.
12. Tamil Nadu
Ennore Bricks & asbestos products Available
Metture Cement Available
North Chennai Bricks, Blocks & asbestos products N.A.
Tuticorin Cement industries Available
13. Uttar Pradesh Anpara A & B Ash dyke & Cement N.A.
Harduaganj B Nil N.A.
Obra Cement & asbestos products. N.A.
Panki Nil N.A.
Paricha Cement N.A.
Tanda Data not available
14. West Bengal
Titagarh Land, Road & Bricks Available
B.B.G.S. Land, Road & Bricks Available
S.G.S. Land, Road & Bricks Available
Kolaghat Bricks, Land & Fertilizer Available
Bandel Nil N.A.
Santalidih PL Nil
Mine filling N.A. Available
15. NCR Delhi
Indraprastha Structural fill & land development N.A.
Rajghat Back filling N.A.

Central Sector

16. DVC

Bokaro 'A' Abandoned mine filling N.A.
Bokaro 'B' Nil N.A.
Chandrapura Nil N.A.
Durgapur Mine filling N.A.
Mejia Nil N.A.

17. NTPC

Badarpur Industries, Ash dyke, bricks, etc. N.A.
BALCO Industries, Ash dyke, bricks, etc. Available
Dadri Land development & Industries Available
Farakka Land development, Industries,
Ash dyke, etc. N.A.
Kahalgaon Land development & Industries Available
Korba Industries, Ash dyke, bricks, etc. N.A.
Ramagundam Land development, Industries,
Ash dykes & bricks Available
Rihand Land development & Industries Available
Singrauli Land development & Industries Available
Talcher Land development & Industries Available
Talcher STPS Land development & Industries Available
Unchahar Industries Available
Vindhyachal Industries, Ash dykes & bricks N.A.

18. NLC Ltd.

Neyveli I Cement, bricks & RCC products Available
Neyveli II N.A.

Source : Central Electricity Authority.